Index of Claims

| Application/ | Control No |
|--------------|------------|
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10/816,277

Examiner

Rachel F. Gorr

Applicant(s)/Patent under Reexamination

LUHMANN ET AL.

**Art Unit** 

1711

| √ | Rejected |
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| - | (Through numeral)<br>Cancelled |
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Restricted

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| Cla                   | aim  | Date           |                |          |          |               |               |          |              |  |  |
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| Oic                   |  | ╌              | 1              | г        | т-'      | T             | <del>-</del>  | Т        | 1            | $\overline{}$                                    |  |
| Final                 | Original                                     |                |                |          |          |               |               |          |              |  |  |
| 1<br>2<br>3<br>4<br>5 | 1<br>2<br>3<br>4<br>5                        | =              |                |          |          |               |               |          |              |  |  |
| 2                     | 2  | =              |                |          |          |               | Ì             | T-       |              |  |  |
| 3                     | 3  | =              | 一              | $\vdash$ | $\vdash$ | $\vdash$      | T             | Г        |              | Г  |  |
| 4                     | 4  | ╘              | Т              | _        | $\vdash$ | $\vdash$      | ╁             | T        | t            | H  |  |
| 5                     | -  | ╘              | ┢              | ┥        | ╀        | ╁             | $\vdash$      | ┢        | ╁            | ╁  |  |
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| 6<br>7                | 6<br>7                                       | ᆖ              | ├-             | -        | ⊢        | ⊢             | ┢             | ┢        | ⊢            | ┢  |  |
| 8                     | 8  | =              | ⊢              |          | ⊢        | ⊢             | <del>├</del>  | ⊢        | ⊢            | $\vdash$   |  |
| 9                     | 9  | =              | -              | ├        | ├        | ⊢             | ├—            | ⊢        | ┝            | <del>                                     </del> |  |
| 10                    | 10   | -              | ⊢              | -        | H        | ⊢             | ├             | ⊢        | ⊢            | -  |  |
| 10                    | 10   | -              | ⊢              | ├        |          | -             | <del> </del>  | ⊢        | ├            | H  |  |
| 11<br>12              | 11<br>12<br>13<br>14<br>15<br>16<br>17<br>18 | =              | $\vdash$       | -        | -        |               | ⊢             | $\vdash$ | $\vdash$     | -  |  |
| 12                    | 12   | ۱              |                |          | ⊢        | <del> </del>  | 1—            | ⊢        | <u> </u>     | <del>  -</del>                                   |  |
|                       | 13   | <del>  -</del> | <del> </del> — | <u> </u> | $\vdash$ | <u> </u>      | ₩             | <b> </b> | ├            | $\vdash$   |  |
|                       | 14   | <u> </u>       | <u> </u>       | ⊢        | <u> </u> | <u> </u>      | <u> </u>      | <u> </u> | <u> </u>     | <u> </u>   |  |
|                       | 15_  | <u> </u>       | ├_             | <u> </u> | <u> </u> | <u> </u>      | Ь_            | <u> </u> | <u> </u>     | <u> </u>   |  |
|                       | 16   | _              | _              |          | L        | _             | <u> </u>      | L        | <u> </u>     | _  |  |
|                       | 17   | <u> </u>       | <u> </u>       |          |          |               | <u> </u>      | L.       | L_           | _  |  |
|                       | 18   | _              | L_             |          |          | L             | L             |          | L            | _  |  |
|                       | 19   | <u> </u>       | L              |          | _        | L             | L             | L        |              | L  |  |
|                       | 20   |                |                |          |          |               |               |          |              |  |  |
|                       | 20<br>21<br>22                               |                |                | L        |          |               |               |          |              |  |  |
|                       | 22   |                |                |          |          |               |               |          |              |  |  |
|                       | 23   |                |                |          |          |               |               |          |              |  |  |
|                       | 23<br>24<br>25                               |                |                | 匚        | L        | _             |               | _        |              |  |  |
|                       | 25   | L              |                | _        | ot       |               |               |          |              |  |  |
|                       | 26   | L              |                |          |          |               | L             |          |              |  |  |
|                       | 27   |                |                | <u> </u> | _        | L             |               | L        | $oxed{oxed}$ | $oxed{oxed}$                                     |  |
|                       | 28<br>29<br>30                               |                | L              |          |          |               | L             | _        |              |  |  |
|                       | 29   |                | L.             | L        | _        | L             |               |          |              |  |  |
|                       | 30   |                | L              | L        |          |               |               |          |              |  |  |
|                       | 31<br>32                                     |                |                |          |          |               |               |          |              |  |  |
|                       | 32   |                |                |          |          |               |               |          |              |  |  |
|                       | 33   | j              |                |          |          |               |               |          |              |  |  |
|                       | 34   |                |                |          |          |               |               |          |              |  |  |
|                       | 35   |                |                |          |          |               |               |          |              |  |  |
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|                       | 37   |                |                |          |          |               |               |          |              |  |  |
|                       | 38   |                |                |          |          |               |               |          |              |  |  |
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| ]                     | 42   |                |                |          |          |               |               |          |              |  |  |
|                       | 43   |                |                |          |          |               |               |          |              |  |  |
|                       | 44   |                |                |          |          |               |               |          |              |  |  |
|                       | 45   |                |                |          |          |               |               |          |              |  |  |
|                       | 46   |                |                |          |          |               |               |          |              |  |  |
|                       | 47   |                |                |          |          |               |               |          |              |  |  |
|                       | 48   |                |                |          |          |               |               |          |              |  |  |
|                       | 49   |                |                |          |          |               |               |          |              |  |  |
|                       | 50   |                |                |          |          | $\overline{}$ | $\overline{}$ |          |              |  |  |

| Cla       | im       | Date     |                                     |          |  |             | Cla          | aim      | Date     |          |          |          |          |          |          |          |          |          |          |          |          |           |
|-----------|----------|----------|-------------------------------------|----------|--|-------------|--------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
|           | Original |          |                                     |          |  |             |              |          |          |          |          | Final    | Original |          |          |          |          |          |          |          |          |           |
|           | 1        | Ξ        |                                     |          |  |             |              |          |          |          |          |          | 51       |          |          |          |          |          |          |          |          |           |
|           | 2        | =        | _                                   | _        | 匚  | _           | _            | _        | _        | <u></u>  |          |          | 52       |          |          |          |          |          |          |          |          |           |
|           | 3        | =        | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | <u> </u> | _  | _           | <u> </u>     | _        |          | _        |          |          | 53       |          |          |          |          |          |          |          |          |           |
| _         | 4        | =        | <u> </u>                            | _        | _  | <u> </u>    |              | <u>L</u> | L        | L        |          |          | 54       | Ш        |          |          |          |          |          |          |          |           |
|           | 5        | =        | <u> </u>                            | _        | _  | _           | _            | _        | _        | L        |          |          | 55       |          |          |          |          |          |          |          |          | Щ         |
|           | 6        | =        | _                                   | _        | _  | <u> </u>    |              | _        | _        | <u> </u> | 1        |          | 56       |          |          |          |          |          |          | <u> </u> |          | Ш         |
|           | 7        | =        | <u> </u>                            | _        | <u> </u>   | ┞           | _            | <u> </u> | <u> </u> | <u> </u> |          |          | 57       |          | _        |          |          |          |          | <u> </u> |          | Ш         |
|           | 8        | =        | <u> </u>                            | -        | <del> </del>                                     | -           |              | <u> </u> | ├-       | ├        |          |          | 58       | Н        |          |          |          |          |          | _        |          |           |
| $\vdash$  | 9        | =        | _                                   | ├—       | _  | H           |              | ⊢        | ⊢        | -        |          |          | 59       | $\vdash$ |          |          |          |          |          |          |          | Ш         |
| )         | 11       | =        | -                                   | ├        | <del> </del>                                     |             |              | ⊢        | ├        | ⊢        |          |          | 60<br>61 | Н        |          | _        |          |          |          | -        |          | $\vdash$  |
| 늰         | 12       | =        | -                                   | -        | ├─   |             | _            | ⊢        | ⊢        | -        |          |          | 62       | $\vdash$ | -        |          |          |          |          |          | _        | $\vdash$  |
| -         | 13       | _        |                                     | -        | ├  | -           | <del> </del> | ┝        | -        | ├        |          |          | 63       | $\vdash$ | $\dashv$ |          |          | _        |          | -        |          |           |
| $\dashv$  | 14       | -        | -                                   |          |  |             |              | -        | $\vdash$ | $\vdash$ | 1        |          | 64       | $\dashv$ |          |          | _        |          |          | ┝        | _        | -         |
| $\dashv$  | 15       | -        | _                                   | $\vdash$ | ⊢  | <del></del> | -            | -        | ┝        | ╫        | 1        |          | 65       | Н        | -        |          | _        |          |          | $\vdash$ | -        |           |
| -         | 16       |          | -                                   | ├─       | ┢  | _           | _            | $\vdash$ | -        | ╁        | 1        |          | 66       | Н        |          | _        |          |          |          | -        |          | $\vdash$  |
| $\dashv$  | 17       |          | _                                   | -        | $\vdash$   |             |              | -        | -        | $\vdash$ |          |          | 67       | Н        |          | _        |          |          |          |          |          | -         |
| 7         | 18       | -        | _                                   | _        |  |             |              | -        | -        | ┢        | 1        |          | 68       | $\vdash$ |          |          | _        |          |          |          |          | $\vdash$  |
| T         | 19       |          |                                     | _        | <u> </u>   |             |              |          | _        | $\vdash$ |          |          | 69       |          |          |          | _        |          |          |          | -        | $\vdash$  |
| $\exists$ | 20       | -        |                                     | <u> </u> | <del>                                     </del> |             | _            | $\vdash$ | $\vdash$ | ┢        | 1 1      |          | 70       |          | $\neg$   | -        | _        |          |          | -        |          | $\vdash$  |
| ╛         | 21       | _        | _                                   |          |  |             | -            | ┢        |          | ┪        | 1        |          | 71       | Н        | $\neg$   | _        | _        |          |          | $\vdash$ |          | $\exists$ |
| ┪         | 22       |          |                                     | _        |  |             |              |          | _        |          | 1        |          | 72       |          | $\neg$   |          |          | -        |          |          |          | $\dashv$  |
|           | 23       |          |                                     |          |  |             |              |          |          | Т        | 1 1      |          | 73       |          | $\neg$   |          |          |          |          |          |          | $\neg$    |
|           | 24       |          |                                     |          |  |             |              |          | _        | _        | 1        |          | 74       |          |          |          |          |          |          |          |          |           |
| Ī         | 25       |          |                                     | Г        |  |             |              |          |          |          | 1 1      |          | 75       |          |          |          |          |          |          |          |          |           |
|           | 26       |          |                                     |          |  |             |              |          |          |          |          |          | 76       | ĺ        |          |          |          |          |          |          |          |           |
|           | 27       |          |                                     |          |  |             |              |          |          |          |          |          | 77       |          |          |          |          |          |          |          |          |           |
|           | 28       |          |                                     |          |  |             |              |          |          |          |          |          | 78       |          |          |          |          |          |          |          |          |           |
| _         | 29       |          |                                     |          |  |             |              |          |          |          |          |          | 79       |          |          |          |          |          |          |          |          |           |
|           | 30       |          |                                     |          |  |             |              |          | _        |          |          |          | 80       |          |          |          |          |          |          |          |          |           |
| _         | 31       |          |                                     |          |  |             |              |          |          |          |          |          | 81       |          |          |          |          |          |          |          |          |           |
| 4         | 32       |          |                                     |          |  |             |              |          |          | <u>_</u> |          |          | 82       |          |          |          |          |          |          |          |          |           |
| 4         | 33       |          |                                     |          |  |             |              |          |          | _        |          |          | 83       |          |          |          |          |          |          |          |          |           |
| 4         | 34       |          |                                     |          | _  |             |              |          |          | L_       |          |          | 84       | $\Box$   | _        |          |          | $\Box$   |          |          |          |           |
| 4         | 35       | _        |                                     | _        |  | _           | _            |          |          | <u> </u> |          |          | 85       | _        | _        | _        |          |          |          |          |          | $\dashv$  |
| 4         | 36       | _        |                                     | _        | _  |             |              |          |          | -        |          |          | 86       | _        | 4        | _        | _        |          |          |          |          | $\dashv$  |
| 4         | 37<br>38 |          |                                     | _        |  |             | <u> </u>     | <u> </u> | _        | ļ        |          |          | 87       | -        | {        | _        |          | _        |          |          | -        | ᅴ         |
| ┩         | 39       |          |                                     | _        | _  |             |              | _        |          | ┝        |          |          | 88       | -        |          |          | _        | -        |          | _        |          | $\dashv$  |
| +         | 40       | -        | -                                   | _        |  |             | -            | -        | -        | $\vdash$ |          |          | 89       |          |          | -        |          | -        |          |          | -        | [         |
| ┥         | 41       | -        | _                                   |          |  | _           | -            | -        | _        |          |          |          | 90<br>91 | -        |          |          |          | -        |          |          | $\dashv$ | _         |
| +         | 42       | -        | _                                   | -        |  | _           | Н            | _        | H        | -        |          | -        | 92       |          |          | -        |          | $\dashv$ |          | -        |          | $\dashv$  |
| ┪         | 43       | $\dashv$ |                                     | -        | _  | -           |              | _        |          | $\vdash$ | }        |          | 93       | $\dashv$ | ┥        | $\dashv$ | $\dashv$ |          | -        | =        |          | $\dashv$  |
| ┪         | 44       |          | _                                   |          |  | H           | $\vdash$     | -        |          | $\vdash$ |          |          | 94       | $\dashv$ |          | -        | -        | $\dashv$ | -        | $\vdash$ | $\dashv$ | $\dashv$  |
| $\dashv$  | 45       | -        |                                     | H        |  | $\vdash$    |              | -        | $\vdash$ | -        |          | $\dashv$ | 95       | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ |          |          | -        | $\dashv$  |
| +         | 46       | $\dashv$ | -                                   |          | $\vdash$   | $\dashv$    | $\dashv$     | -        | $\vdash$ | $\vdash$ | }        |          | 96       | $\dashv$ | -        | $\dashv$ | -        |          | -        |          | $\dashv$ | $\dashv$  |
| $\dashv$  | 47       | -        | -                                   | $\vdash$ | $\vdash$   | Н           | $\vdash$     | $\vdash$ | $\vdash$ | -        |          |          | 97       |          | $\dashv$ | $\dashv$ | $\dashv$ |          | $\dashv$ | -        | $\dashv$ | $\dashv$  |
| +         | 48       | $\dashv$ | -                                   | Н        | $\vdash$   | Н           | $\dashv$     | $\dashv$ | $\dashv$ | -        | <b> </b> |          | 98       | -        | -        | -        |          |          | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$  |
| 7         | 49       |          | $\neg$                              | $\vdash$ | $\vdash$   | $\vdash$    | $\dashv$     |          | $\vdash$ | -        |          |          | 99       | $\dashv$ |          | $\dashv$ | -        |          | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$  |
| 7         | 50       |          | $\neg$                              | $\dashv$ |  | $\neg$      |              |          | $\vdash$ |          |          |          | 100      | _        | 7        | $\dashv$ | $\dashv$ | ᅥ        | $\dashv$ | $\neg$   | $\neg$   | $\dashv$  |
| _         |          |          |                                     |          |  |             | _            | _        |          | لب       |          |          | .00      |          |          |          |          |          |          |          |          |           |

| Cla   | aim               | Date     |          |              |          |          |            |              |              |                 |  |
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|       | Г                 |          |          |              |          |          | Π          | Г            | П            |                 |  |
| Final | Original          |          |          |              |          |          |            |              |              |                 |  |
|       | 101               | $\vdash$ |          | $\vdash$     | Т        |          | Т          |              | Г            | П               |  |
|       | 102<br>103        | Г        |          |              |          |          |            |              | Г            | П               |  |
|       | 103               |          |          |              |          |          |            |              |              |                 |  |
|       | 104               |          | _        |              |          | L        |            |              |              |                 |  |
|       | 105               |          | <u> </u> |              |          | _        | _          |              | L            |                 |  |
|       | 106               | _        | L        | _            |          |          | lacksquare | _            | _            | Ц               |  |
|       | 107               | <u> </u> |          |              | L_       |          |            | _            | _            | Ц               |  |
|       | 108               | ┡        |          | <u> </u>     | <u> </u> | <u> </u> |            | _            | L            | Ш               |  |
|       | 109               | _        | _        | <u> </u>     | _        | _        |            | _            | <u> </u>     | $\vdash \vdash$ |  |
|       | 110<br>111        | $\vdash$ | H        | <del> </del> | ⊢        | _        | -          | <u> </u>     | ┝            | Н               |  |
|       | 112               | -        | -        | -            | -        | ├        | _          | -            | -            | Н               |  |
|       | 112               | ┝        | $\vdash$ | ├            | ├-       | -        | H          | -            | <del> </del> | Н               |  |
|       | 113<br>114<br>115 | -        | -        | -            | -        | -        |            | $\vdash$     | $\vdash$     | Н               |  |
|       | 115               | $\vdash$ | -        | ┢            | ┢        | -        | ┢          | $\vdash$     | H            | Н               |  |
|       | 116               |          |          | ┢            | -        | -        | ┢          | -            | $\vdash$     | $\vdash$        |  |
|       | 116<br>117        | $\vdash$ |          | $\vdash$     | ┢        | $\vdash$ | ┢          | <del> </del> | -            | Н               |  |
|       | 118               | -        | -        | _            | -        |          | $\vdash$   | $\vdash$     | ┢            | Н               |  |
|       | 119               | T        |          |              |          |          | Г          |              | $\vdash$     | H               |  |
|       | 120               | İ        |          |              |          |          |            |              | 厂            |                 |  |
|       | 121<br>122<br>123 |          |          |              |          |          |            |              |              | П               |  |
|       | 122               |          |          |              |          |          |            |              |              |                 |  |
|       | 123               |          |          |              |          |          |            |              |              |                 |  |
|       | 124<br>125        |          |          |              |          |          |            |              |              |                 |  |
|       | 125               |          | _        | L            | <u> </u> | L        |            |              |              |                 |  |
|       | 126               | <u></u>  |          | _            |          | <u> </u> |            |              |              | Ш               |  |
|       | 127<br>128        |          |          | <u> </u>     | _        | _        | <u> </u>   |              | _            | Ш               |  |
|       | 128               | <u> </u> | _        | _            | _        | <u> </u> |            | $oxed{oxed}$ | _            | Ш               |  |
|       | 129               | <u> </u> |          | <u> </u>     | _        | _        | <u> </u>   | _            |              | Ы               |  |
|       | 130               | <u> </u> |          |              | -        | ⊢        | ⊢          | _            | -            | Н               |  |
|       | 131<br>132        | <u> </u> |          | _            | H        | ├        | ┝          |              | <u> </u>     | H               |  |
|       | 133               | <u> </u> | _        |              | _        | -        | -          | ┝            | ┝            | -               |  |
|       | 134               |          | _        | _            | ⊢        | -        | $\vdash$   | ┝            |              | Н               |  |
|       | 135               |          | -        | _            | $\vdash$ | $\vdash$ | -          | $\vdash$     |              | $\Box$          |  |
|       | 136               | -        |          |              | _        | _        | Н          | $\vdash$     | $\vdash$     |                 |  |
|       | 137               |          |          | _            |          | $\vdash$ |            | _            | $\vdash$     |                 |  |
|       | 138               |          |          |              | т        |          | П          | Н            | $\vdash$     | Н               |  |
|       | 139               |          |          |              |          |          |            |              |              | П               |  |
|       | 140               |          |          |              |          | Г        |            |              | $\Box$       | П               |  |
|       | 141               |          |          |              |          |          |            |              |              |                 |  |
|       | 142               |          |          |              |          |          |            |              |              |                 |  |
|       | 143               |          |          |              |          |          |            |              |              |                 |  |
| ]     | 144               |          |          |              |          |          |            |              |              |                 |  |
|       | 145               | Ш        |          | $\Box$       |          |          |            |              |              | Ш               |  |
|       | 146               |          | Ш        | Ш            |          | <u></u>  |            | Ш            |              | Ш               |  |
|       | 147               | Щ        | Ш        | Щ            | Щ        |          |            | Щ            |              | Щ               |  |
|       | 148               |          | Щ        | Щ            |          | Щ        |            |              | Ш            | Ш               |  |
|       | 149               | Ш        | Щ        | Щ            | Щ        | Щ        | _          | Щ            | Щ            | Н               |  |
|       | 150               |          |          |              | لبسا     | Щ        |            | L J          | لبيا         | لـــا           |  |